

**In the Abstract:**

On page 20, please replace the abstract with the following:

-- This disclosure describes a PCB decomposition reactor comprising: an injector for injecting a mixture of water and sodium hydroxide connected to the lower part of the reaction vessel; an outlet pipe for withdrawing treated fluid connected to the sidewall of the reaction vessel and a cyclone for separating sodium carbonate from the treated fluid; a discharge pipe connected to the top of the cyclone to discharge treated fluid from which precipitated sodium carbonate has been removed; a downcomer for the separated fluid connected to the bottom of the cyclone so that precipitated sodium carbonate and fluid containing it are discharged therethrough and to an injector which is connected to a feed pipe for feeding a mixture of PCB and mineral oil; and a gas supply nozzle for injecting a gas into the reaction vessel installed at the bottom of the reaction vessel. --